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**United States Patent** [19]**Friedheim**[11] **Patent Number:** **5,471,556**[45] **Date of Patent:** **Nov. 28, 1995**[54] **SUPERHEATED VAPOR GENERATOR AND CONTROL SYSTEM AND METHOD**[76] **Inventor:** **Max Friedheim, P.O. Box 99838, San Diego, Calif. 92169**[21] **Appl. No.:** **93,071**[22] **Filed:** **Jul. 16, 1993**[51] **Int. Cl.<sup>6</sup>** **F22B 1/02; F22B 1/28**[52] **U.S. Cl.** **392/399; 392/396**[58] **Field of Search** **392/399, 401-406, 392/396; 122/40; 38/77.9, 77.6**[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57] **ABSTRACT**

A superheated vapor generator and control system includes a vapor generator having an interior vapor generating chamber with peripheral surfaces having a plurality of ridges and grooves, preferably of substantially randomly varying heights and depths and preferably having a plurality of grooves and ridges intersecting the first-mentioned grooves and ridges, the second-mentioned ridges and grooves preferably varying substantially randomly in height and depth. A hand-held control member includes parts for controlling generation of superheated vapor and for directing such vapor to desired objects. A method for fabricating a superheated vapor generator includes machining inner portions of sections of heat conductive material to form grooves and ridges and then welding the parts together to form a closed interior vapor generation chamber.

**41 Claims, 6 Drawing Sheets**

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